

## Michigan Technological University

### Minor in Chemistry

Program Code: SCHM, Academic Year 2020-21

Department of Chemistry

Total Credits Required: 18

#### Required Courses:

Course	Credits
CH 2212* Quantitative Analysis (5) <i>Prereqs: CH1122 or (CH1160 and CH1161)</i>	
CH 2420 Organic Chemistry II (3) <i>Prereqs: CH2410</i> <b>or</b> CH 2440 Synthetic Organic Chemistry (3) <i>Prereq: CH2430</i>	
CH 3510 Physical Chemistry I - Thermodynamics, Equilibrium and Kinetics (3) <i>Prereqs: CH1122 or (CH1160 and CH1161) and MA2160 and PH2200(C)</i>	

\*CH4222 (5) will be accepted in place of CH2212

#### Elective Courses: choose courses to achieve a minimum of 18 credits

Course	Credits
CH 3520 Physical Chemistry II (3) <i>Prereqs: CH1122 or (CH1160 and CH1161) and PH2200 C and MA3160</i>	
CH 3521 Physical Chemistry II Lab (2) <i>Prereqs: CH3520(C)</i>	
CH 4240 Advanced Mass Spectrometry (3) <i>Prereqs: CH4212 or CH4222</i>	
CH 4241 Advanced Mass Spectrometry Lab (1)* <i>Prereqs: CH4240(C) and (CH4212 or CH4222)</i> <b>and</b> CH 4240 Advanced Mass Spectrometry (3) <i>Prereqs: CH4212 or CH4222</i>	
CH 4310 Inorganic Chemistry (3) <i>Prereqs: CH3520</i>	
CH 4311 Inorganic Chemistry Lab (2) <i>Prereqs: CH4310(C)</i>	
CH 4412 Spectroscopy of Organic Chemistry (3) <i>Prereqs: CH2420 or CH2440</i>	
CH 4516 Aerosol and Cloud Chemistry (3) <i>Prereqs: CH3510 or CH3520 or CEE4501 or CEE4504</i>	
CH 4610 Intro to Polymer Science (3) <i>Prereqs: CH1122 or (CH1160 and CH1161)</i>	
CH 4620 Polymer Chemistry (3) <i>Prereqs: CH2420 or CH2440</i>	
CH 4631 Polymer Science Lab (2) <i>Prereqs: CH4610(C) or CM4610(C)</i>	
CH 4710 Biomolecular Chemistry I (3) <i>Prereqs: CH2420 or CH2440</i>	

\*CH4241 – Cannot take the lab without the lecture